



U.S. Department  
of Transportation

Research and  
Special Programs  
Administration

IAEA CERTIFICATE OF COMPETENT AUTHORITY  
SPECIAL FORM RADIOACTIVE MATERIALS  
CERTIFICATE NUMBER USA/0419/S, REVISION 2

400 Seventh Street, S.W.  
Washington, D.C. 20590

This certifies that the source described has been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency<sup>1</sup> and the United States of America<sup>2</sup> for the transport of radioactive materials.

1. Source Identification - 3M Model 4P6E source capsules manufactured prior to August 3, 1989.
2. Source Description - The source authorized by this certificate is a tungsten inert gas welded, double encapsulation constructed of Type 304 stainless steel measuring 7.1 mm (0.280 in) in diameter and 19.1 mm (0.75 in) in length. All capsules shall have been constructed in accordance with 3M Company drawing number 12-1921-0683-4 (attached).
3. Radioactive Contents - This source contains not more than 74 GBq (2 Ci) of Cs-137 in the form of ceramic microspheres.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 209 of the IAEA regulations<sup>1</sup> shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors and consignees in the United States exporting or importing shipments under this certificate shall satisfy the requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires August 31, 2004.

This certificate is issued in accordance with paragraph 703 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the petition and information dated August 30, 1999 submitted by J. L. Shepherd & Associates, San Fernando, CA, and in consideration of other information on file in this Office.

Certified by:

Alan I. Roberts

Associate Administrator for Hazardous Materials Safety

JAN - 5 2000

(DATE)

Revision 2 - Issued to extend the expiration date, and to update the certificate to the 1985 IAEA regulations.

-----  
1 "Safety Series No. 6, Regulations for the Safe Transport of Radioactive Materials, 1985 Edition, as amended 1990", published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

2 Title 49, Code of Federal Regulations, Parts 100 - 199, United States of America.

ITEM	QTY	PART NO.	DESCRIPTION
1	1	B-12-1921-3489-3	OUTER PLUG
2	1	B-12-1921-3490-1	INNER PLUG
3	1	B-12-1921-3522-1	INNER CAPSULE
4	1	B-12-1921-3523-9	OUTER CAPSULE
5	AR		3M BRAND RADIATING MICROSPHERES CONTAINING Cs-137 ISOTOPE

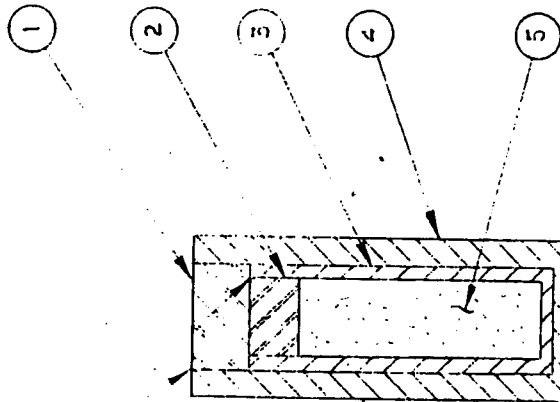


FIG 1

ENGRAVE AS REQD

# USED ON

© 3M COPYRIGHT 1952  
This document is the copyrighted property of the 3M Company and may not be reproduced without 3M written permission or used for other than 3M authorized purposes.

TOLERANCE AND SURFACE ROUGHNESS UNLESS NOTED		PLACES IN DIMENSION		MATERIAL	
OPERATION					
MACHINING	±.1	±.02	±.003	✓	Engineering Division /3M St. Paul, Minnesota 55101
CUT OFF / SAW SURF. SHEET	±.1	±.04	///		
WELDING	±.1	±.08	±		
ANGULAR DIM.	±				
SCALE	4X				
DR. CHUCK ZENDER		CH. DRAKE		APP. <i>P. Schmitt</i>	
B		B		B	

ISSUE	TITLE	REV.	CHG.
F	NOV 2, 82 ECO 82-0080 DRAWN FROM B-683 REV 5	12/8	CD
	ISSUE DATE AND CHANGE RECORD		

ASSEMBLY  
VOLUME SOURCE  
4PGE

PART NO. 12-1921-0683-4